

TRAUTWEIN CONSTRUCTION

General Engineering Contractor 605199A

July 17, 1997

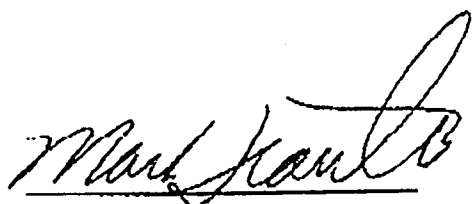
RECEIVED
ENGINEERING

JUL 21 1997

CITY OF SAN BERNARDINO
MUNICIPAL WATER DEPT.**James Dye**City of San Bernardino
Municipal Water Department
195 N. "D" Street
San Bernardino, CA 92401**RECEIVED**
JUL 21 1997RE: Newmark Water Transmission Main
Contract No. 1267**FINANCE**

Affidavit of Contract Completion

I, Mark Trautwein, of Trautwein Construction, certify to accept as full consideration for the faithful performance of this Contract, subject to any subsequent additions or deductions as provided in approved change orders, the sum of Five Hundred Seventy-Four Thousand, Six Hundred Seventy-Four and 70/100 Dollars (\$574,674.70), as itemized on the Proposal. I also certify that all workers and persons employed, all firms supplying materials, and all subcontractors upon the Project have been paid in full, and that there are no claims outstanding against the Project for either labor or material, except those certain items, if any, to be set forth in an affidavit covering disputed claims, or items in connection with Stop Notices which have been filed under the provisions of the statutes of the State of California.


Mark Trautwein

TRAUTWEIN CONSTRUCTION
14046 Santa Ana Avenue
Fontana, CA 92337

Invoice

DATE	INVOICE #
7/17/97	960144

BILL TO:

San Bernardino Water Department
P.O. Box 1630
195 North "D" Street
San Bernardino, CA 92402

RECEIVED
JUL 24 1997

FINANCE

P.O. NUMBER	TERMS	PROJECT

QUANTITY	DESCRIPTION	RATE	AMOUNT
	Newmark Water Transmission Main #1267 Retention Less: billing error - Segment #2 4/30/97 Billing	64,194.28	64,194.28 <u><1,213.50></u>
		TOTAL	<u>62,980.78</u> \$64,194.28

RECORDING REQUESTED BY

and

AND WHEN RECORDED MAIL TO:

NAME Marjorie A. Hoverland
STREET ADDRESS City of San Bernardino
Municipal Water Department
CITY, STATE & ZIP CODE P. O. Box 710
San Bernardino, CA 92402

RECEIVED
JUL 28 1997

FINANCE

SPACE ABOVE THIS LINE FOR RECORDER'S USE

NOTICE OF COMPLETION

Notice pursuant to Civil Code Section 3093, must be filed within 10 days after completion. (See reverse side for Complete requirements.)

Notice is hereby given that:

1. The undersigned is owner or corporate officer of the owner of the interest or estate stated below in the property hereinafter described:
2. The full name of the owner is City of San Bernardino Municipal Water Department
3. The full address of the owner is 300 North D Street, San Bernardino, CA 92418
4. The nature of the interest or estate of the owner is: In fee.

(IF OTHER THAN FEE, STRIKE "IN FEE" AND INSERT, FOR EXAMPLE, "PURCHASER UNDER CONTRACT OF PURCHASE," OR "LESSEE")

5. The full names and full addresses of all persons, if any, who hold title with the undersigned as joint tenants or as tenants in common are:

NAMES

ADDRESSES

N/A

N/A

6. The full names and full addresses of the predecessors in interest of the undersigned, if the property was transferred subsequent to the commencement of the work or improvements herein referred to:

NAMES

ADDRESSES

N/A

N/A

7. A work of improvement on the property hereinafter described was completed on April 26, 1997. The work done was:
Furnish all labor, equipment and materials required for a raw water transmission pipeline for the Newmark Drinking Water Restoration Superfund Project

8. The name of the contractor, if any, for such work of improvement was Trautwein Construction

January 23, 1997

(IF NO CONTRACTOR FOR WORK OF IMPROVEMENT AS A WHOLE, INSERT "NONE")

(DATE OF CONTRACT)

9. The property on which said work of improvement was completed is in the City of San Bernardino, County of San Bernardino, State of CA, and is described as follows: South of Mt. View Ave Station 9+00; North of Mt. View Ave Station 9+00 and South of Mt. View Station 44+00; North of Mt. View Station 44+00 and South of Mt. View Ave. Station 60+63 of the Newmark Drinking Water Restoration Superfund Project.

10. The street address of said property is N/A

(IF NO STREET ADDRESS HAS BEEN OFFICIALLY ASSIGNED, INSERT "NONE".)

Dated: _____

(SIGNATURE OF OWNER OR CORPORATE OFFICER OF OWNER NAMED IN PARAGRAPH 2 OR HIS AGENT)

Bernard C. Kersey, General Manager
City of San Bernardino Municipal Water Department

VERIFICATION

I, the undersigned, say: I am the General Manager the declarant of the foregoing notice of completion;
("PRESIDENT OF", "MANAGER OF", "PARTNER OF", "OWNER OF", ETC.)
I have read said notice of completion and know the contents thereof; the same is true of my own knowledge. I declare under penalty of perjury at the foregoing is true and correct.

Executed on _____, at San Bernardino, CA
(CITY) (STATE)

(PERSONAL SIGNATURE OF THE INDIVIDUAL WHO IS SWEARING THAT THE CONTENTS OF THE NOTICE OF COMPLETION ARE TRUE.)
Bernard C. Kersey, General Manager



CONTRACT NO. 1267
CHANGE ORDER NO. 3

DATE: July 29, 1997

OWNER: City of San Bernardino Municipal Water Department

CONTRACTOR: Trautwein Construction

PROJECT: Furnish All Labor, Equipment, and Materials Required For a Raw Water Transmission Pipeline Consisting of 12" C900 and 12", 16", and 24" Ductile Iron Pipe, and Associated Appurtenances for the Newmark Drinking Water Restoration Superfund Project, San Bernardino, California

You are hereby requested to make the following described changes and/or additions to the project Plans and Specifications.

Item No.	Description of Changes and/or Additions	Decrease in	Increase in
		Contract Price (Change in Contract Time)	Contract Price (Increase in Contract Time)
1.	Additional Asphalt Repair		\$ 9,657.70 (0 days)
2.	Additional Base Paving per City Engineering Dept.		\$ 470.93 (0 days)
3.	18 Lineal Feet of 12" ductile iron pipe per Inspector		\$ 1,400.00 (0 days)
4.	Removal of existing concrete underlayment above contract estimate		\$ 4,993.00 (0 days)
5.	Repair/Replace 12 sewer laterals above contract estimate		\$ 6,000.00 (0 days)
	TOTAL		<u>\$ 22,521.63</u>

Original Contract Amount:	\$ 574,674.70
Net Change By Previous Change Orders:	\$ 43,533.00
Contract Amount Prior to This Change Order:	\$ 618,207.70
Net Increase Due To This Change	\$ 22,521.63
Net Contract Amount, Including This Change Order:	\$ 640,729.33
Net Change in Contract Price:	\$ 66,054.63

The additional work contained with this Change Order can be performed incidental to the prime work and any Change Order work issued to date and is able to be completed concurrently with remaining work to be performed under the items of the Contract, without interference or delay to the Contractor. The work required by the Change Order can be completed within the time allotted for the original Contract plus the extensions to the Contract time made by this and any previously issued Change Orders.

The amounts indicated above shall be compensation in full for the work described including all direct and indirect, incidental or consequential costs or expenses, including but not limited to, extended overhead and other impact costs, that have been or will be incurred by the Contractor.

The total Contract performance time is not changed.

ACCEPTED BY: _____ DATE: _____
TRAUTWEIN CONSTRUCTION

RECOMMENDED BY: _____ DATE: _____
REPRESENTATIVE
CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT

APPROVED BY: _____ DATE: _____
GENERAL MANAGER
CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT
(or)
PRESIDENT, BOARD OF WATER COMMISSIONERS
CITY OF SAN BERNARDINO

**SPECIFICATION NO. 1267
CHANGE ORDER NO. 3
ITEM NO. 1**

TITLE: Asphalt Cap

DESCRIPTION: Cost of Additional Cap

REASON: Approximately 41,990 Square Feet of additional asphalt cap was required by City of San Bernardino Public Works Department Engineer. Additional pavement cap width was needed due to surface scuffing of roadway.

COMPENSATION

BASIS: Lump Sum

**PROJECT
MANAGER'S**

EST. COST: \$.23 per square foot; 41,990 SF x \$.23 = \$9,657.70

TIME: 0 days

CONTRACTOR'S

PROP. COST: \$.23 per square foot; 41,990 SF x \$.23 = \$9,657.70

TIME: 0 days

NEGOTIATED

TOTAL COSTS: \$.23 per square foot; 41,990 SF x \$.23 = \$9,657.70

TIME: 0 days

NOTIFICATION: Contractor notified Operations Superintendent and Project Manager .

**SPECIFICATION NO. 1267
CHANGE ORDER NO. 3
ITEM NO. 2**

TITLE: Additional Base Paving

DESCRIPTION: Cost of Additional Base Paving Required by City Engineer

REASON: Additional 1" Base Paving required by City Engineering Department due to non-compactible native soils. Base Paving was 273 LF x 7.5 F at \$.23 per LF.

COMPENSATION
BASIS: Lump Sum

PROJECT
MANAGER'S
EST. COST: \$.23 per square foot; $273 \times 7.5 \times \$0.23 = \470.93
TIME: 0 days

CONTRACTOR'S
PROP. COST: \$.23 per square foot; $273 \times 7.5 \times \$0.23 = \470.93
TIME: 0 days

NEGOTIATED
TOTAL COSTS: \$.23 per square foot; $273 \times 7.5 \times \$0.23 = \470.93
TIME: 0 days

NOTIFICATION: Contractor notified Operations Superintendent and Project Manager.

**SPECIFICATION NO. 1267
CHANGE ORDER NO. 3
ITEM NO. 3**

TITLE: Additional 12" D.I.P.

DESCRIPTION: Cost of Additional 18 LF of 12" D.I.P.

REASON: Approximately 18 LF of additional C-900 Ductile Iron Pipe was requested by the Water Department Inspector at EPA Well No. 1 in order to bring the point of connection further west in order to make future onsite construction easier.

COMPENSATION

BASIS: Lump Sum

**PROJECT
MANAGER'S**

EST. COST: \$80 per linear foot; 18 LF x \$80.00 = \$1,400.00

TIME: 0 days

CONTRACTOR'S

PROP. COST: \$80 per linear foot; 18 LF x \$80.00 = \$1,400.00

TIME: 0 days

NEGOTIATED

TOTAL COSTS: \$80 per linear foot; 18 LF x \$80.00 = \$1,400.00

TIME: 0 days

NOTIFICATION: Contractor notified Operations Superintendent, Project Manager and Inspector.

**SPECIFICATION NO. 1267
CHANGE ORDER NO. 3
ITEM NO. 4**

TITLE: Concrete Removal

DESCRIPTION: Cost of Removing Concrete Underlayment

REASON: Approximately 4,993 Square Feet of additional concrete underlayment, over and above the contract estimate of 30,000 SF, needed to be removed

COMPENSATION

BASIS: Lump Sum

**PROJECT
MANAGER'S**

EST. COST: \$1.00 per square foot; 4,993 SF x \$1.00 = \$4,993.00

TIME: 0 days

CONTRACTOR'S

PROP. COST: \$1.00 per square foot; 4,993 SF x \$1.00 = \$4,993.00

TIME: 0 days

NEGOTIATED

TOTAL COSTS: \$1.00 per square foot; 4,993 SF x \$1.00 = \$4,993.00

TIME: 0 days

NOTIFICATION: Contractor notified Operations Superintendent and Project Manager .

**SPECIFICATION NO. 1267
CHANGE ORDER NO. 3
ITEM NO. 5**

TITLE: Sewer Laterals

DESCRIPTION: Replacement/Repair of Sewer Laterals

REASON: One hundred twelve (112) sewer laterals were repaired or replaced during construction of the pipeline, which is 12 more than estimated in the specification.

COMPENSATION

BASIS: Lump Sum

**PROJECT
MANAGER'S**

EST. COST: \$500.00 per sewer lateral; $12 \times \$500 = \$6,000.00$

TIME: 0 days

CONTRACTOR'S

PROP. COST: \$500.00 per sewer lateral; $12 \times \$500 = \$6,000.00$

TIME: 0 days

NEGOTIATED

TOTAL COSTS: \$500.00 per sewer lateral; $12 \times \$500 = \$6,000.00$

TIME: 0 days

NOTIFICATION: Contractor notified Operations Superintendent and Project Manager .

Total Asphalt Cap

Net

355 2.5

Description	Total Cap Area (L x W - sq ft)	Contract Cap Area ((trench + 2) x L	Net Added Area (Total Area - Contract Area)	Unit Price (\$ per sq. ft)	Total Added Cost (Net area x Price)
Billing Segment No. 1					
Previously Calculated	55,000	28,783	26,217	\$ 0.23	\$ 6,029.91
Mt. View from 11th to Baseline	5,187	2,594	2,594	\$ 0.23	\$ 596.51
Total Billing Segment No. 1	60,187	31,377	28,811		\$ 6,626.42
Billing Segment No. 2					
lat - 13th & Mt. View	66	52	14	\$ 0.23	\$ 3.16
Lat - Magnolia and Mt. View	58	52	6	\$ 0.23	\$ 1.27
Lat- 16th and Mt. View	398	280	118	\$ 0.23	\$ 27.14
Station 6+40 through 44+00 in Mt. View Avenue (16' Cap)	60,800	36,100	24,700	\$ 0.23	\$ 5,681.00
17th Street Pavement	7,640	4,199	3,441	\$ 0.23	\$ 791.43
Total Segment No. 2	68,962	40,684	28,278		\$ 6,504.00
Main Line					
Station 44+00 through 44+90 in Mt. View Avenue (16' Cap)	1,440	855	585	\$ 0.23	\$ 134.55
Sta 44+90 through Sta 60+81 Mt. View Avenue	19,092	10,342	8,751	\$ 0.23	\$ 2,012.62
Lat - 21st and Mt. View	80	52	28	\$ 0.23	\$ 6.44
Total Segment No. 3	20,612	11,249	9,364		\$ 2,153.61

(22750)

Net 22750 SF OK

(14446)

USED AS COMPARISON TO BILLING NO. 3

Jhr 5/5/97

JLIS JK

CONTRACT NO. 1267
CHANGE ORDER NO. 2

DATE: May 1, 1997

OWNER: City of San Bernardino Water Department

CONTRACTOR: Trautwein Construction

PROJECT: Phase I of the South Plant Pipeline; Newmark Operable Unit; Newmark Groundwater Contamination Superfund Project. Raw water transmission main from 11th Street to Mountain View Avenue.

I have attached signed invoices for the following two change Order Items for your review and acceptance.

Item No.	Description of Changes and/or Additions	Decrease in Contract Price (Decrease in Contract Time)	Increase in Contract Price (Increase in Contract Time)
1	Backfill a 3.5 thick portion of the trench with "Green Book" Class II Base material from Station 6+27 through Station 9+00 in order to obtain adequate compaction. The pre-negotiated unit cost for imported Class II Base material is \$ 6.00 per foot of lift for a 7.5' wide trench. 273x3.5x6.00 = \$ 5733.00	\$ 0.00 (0 days)	\$ 5,733.00 (0 days)
2	Backfill a 3.5 thick portion of the trench with "Green Book" Class II Base material from Station 9+00 through Station 24+00 in order to obtain adequate compaction. The pre-negotiated unit cost for imported Class II Base material is \$ 6.00 per foot of lift for a 7.5' wide trench. 1500x3.5x6.00 = \$ 31500.00	\$ 0.00 (0 days)	\$ 31,500.00 (0 days)
Total		\$ 0.00	\$ 37,233.00

**CONTRACT NO. 1267
CHANGE ORDER NO. 2
ITEM NO. 1**

TITLE: Phase I of the South Plant Pipeline; Newmark Operable Unit; Newmark Groundwater Contamination Superfund Project. Raw water transmission main from 11th Street to Mountian View Avenue.

DESCRIPTION: Change order associated with unacceptable native mater for backfill, requiring the import of "Green Book" Class II base.

REASON: The imported material was necessary in order to obtain the required 90% compaction required in the contract documents. The SBMWD Engineer and the URS inspector met with the contractor and the contractors soils engineer to the job site and observed the soil compaction as required in section 3.6 BACKFILLING of the technical specifications. A majority of the compaction test failed for the work from station 6+27 through station 9+00 even though the contractor was putting a great deal of extra energy into the compaction process. The SBMWD requested that the contractor go back and remove the top 3.5 feet of soil from station 6+27 through station 9+00 and replace it with Class II base.

COMPENSATION BASIS: Negotiated unit price of \$ 6.00 per foot of lift.

PROJECT MANAGERS EST. COST: \$14.00 per lineal foot at 3.5 feet of lift ($14.00/3.5 = \$ 4.00$ per foot of lift) The Project Managers cost excluded trucking costs. $\$ 14.00 \times 273 = \$ 3,822.00$ - This price did not include trucking cost and was there determined during discussions to be low.

TIME: 0 days

CONTRACTORS'S PROPOSED COST: \$ 26.00 per lineal foot at 3.5 feet of lift ($26.00/3.5 = \$ 7.43$ per foot of lift.) $26 \times 273 = \$ 7,098.00$

TIME: 0 days

NEGOTIATED TOTAL COSTS: \$ 21.00 per lineal foot at 3.5 feet of lift ($21.00/3.5 = \$ 6.00$ per foot of lift.) $21 \times 273 = \$ 3,575.00$

TIME EXT: 0 days

NOTIFICATION: Monday March 3, 1997

**CONTRACT NO. 1267
CHANGE ORDER NO. 2
ITEM NO. 2**

TITLE: Phase I of the South Plant Pipeline; Newmark Operable Unit; Newmark Groundwater Contamination Superfund Project. Raw water transmission main from 11th Street to Mountain View Avenue.

DESCRIPTION: Change order associated with unacceptable native mater for backfill, requiring the import of "Green Book" Class II base.

REASON: The imported material was necessary in order to obtain the required 90% compaction required in the contract documents. The SBMWD Engineer and the URS inspector met with the contractor and the contractors soils engineer to the job site and observed the soil compaction as required in section 3.6 BACKFILLING of the technical specifications. The soil was very silty sand with clay and would flow and pump under the load of the compaction wheel. This made the native soil unacceptable as backfill material.

**COMPENSATION
BASIS:** Negotiated unit price of \$ 6.00 per foot of lift.

**PROJECT
MANAGERS
EST. COST:**

\$14.00 per lineal foot at 3.5 feet of lift ($14.00/3.5 = \$ 4.00$ per foot of lift) The Project Managers cost excluded trucking costs. $\$ 14.00 \times 1500 = \$ 21,000.00$ - This price did not include trucking cost and was there determined during discussions to be low.

TIME: 0 days

**CONTRACTORS'S
PROPOSED COST:**

\$ 26.00 per lineal foot at 3.5 feet of lift ($26.00/3.5 = \$ 7.43$ per foot of lift.) $26 \times 1500 = \$ 39,000.00$

TIME: 0 days

**NEGOTIATED
TOTAL COSTS:**

\$ 21.00 per lineal foot at 3.5 feet of lift ($21.00/3.5 = \$ 6.00$ per foot of lift.) $21 \times 273 = \$ 31,500.00$

TIME EXT: 0 days

NOTIFICATION: Monday March 3, 1997

TRAUTWEIN CONSTRUCTION

General Engineering Contractor 605199A

March 25, 1997

James Dye

City of San Bernardino
Municipal Water Department
195 N. "D" Street
San Bernardino, CA 92401

RE: Newmark Water Transmission Main

INVOICE

Work performed on Segment #2: Station 9+00 to 24+00

1500lf. X 3 1/2 ft. lift

Class II Base Backfill - \$6.00 per lf. per 1 ft. lift

$1500 \times 3.5 \times 6.00 = \$31,500.00$

Total amount due

\$31,500.00

Trautwein Construction
Mark Trautwein

J. Alcazar cwo
F. De Bon URS

sanb06

TRAUTWEIN CONSTRUCTION

General Engineering Contractor 605199A

March 5, 1997

James Dye

City of San Bernardino
Municipal Water Department
195 N. "D" Street
San Bernardino, CA 92401

RE: Newmark Water Transmission Main

INVOICE

Work performed on Segment #1: Station 6+27 to 9+00

273 lf. X 3 1/2 ft. lift

Class II Base Backfill - \$6.00 per lf. per 1 ft. lift

$273 \times 3.5 \times 6.00 = \$5,733.00$

Total amount due

\$5,733.00

Trautwein Construction
Mark Trautwein

J. Alcaraz cuo
F. D. B. ORS

sanb05

FIELD COMPACTION TEST SUMMARY SHEET

Job No. 17051-1
 Sh. _____ of _____
 Plan Title _____
 Plan Sh. _____ of _____

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APR 22 1997

PROJECT: TRAUTWEIN CONST. Newmark Pipeline
WATER LINE B.F. (90%) SG & FG (95%)

Date	Test No.	Location Of Test	Depth Of Cut	Depth Of Test	DENSITIES			MC%	DISC OF MUNICIPAL WATER	SANITARY WATER	Remarks or Notes
					Dry	Max.	Rel.				
					(lbs/cubic foot)						
1-30-97	BF-1	11th ST - STA 37+85		6"	3"-35"	114.0	121.5	94	10.5	2	
	2	40+18		6"	15"-20"	120.7	124.5	97	8.6	1	
	3	41+80		6"	3"-35"	109.0	121.5	90	11.0	2	
	4	35+35		6"	15"-20"	118.2	124.5	95	9.0	1	
1-31-97	FG-1	11th ST 35+65		6"	0"-05"	141.2	144.5	98	6.5	5	
	SG-1	11th and Lugd 37+81		6"	0"-10"	120.1	123.5	98	6.2	4	
	FG-2	11th and Sepulveda 41+67		6"	0"-05"	136.6	144.5	95	5.6	5	
	SG-2	11th St Lateral B/T 43+47		6"	05"-10"	115.7	121.5	95	10.2	2	
2-4-97	SG-3	11th ST 6m+view STA 27+50		6"	05"-10"	114.8	121.5	95	9.0	2	
	FG-3	11th ST STA 32+75		6"	05"-08"	137.6	144.5	95	4.5	5	
2-7-97	SG-4	11th ST STA 22+27		6"	05"-10"	118.2	124.5	95	9.1	1	
	FG-4	11th ST STA 23+82		6"	05"-08"	139.5	144.5	97	8.5	5	
	BF-5	11th ST STA 21+50		6"	4"-45"	117.0	124.5	94	11.1	1	
2-10-97	SG-5	11th ST STA 20+37		6"	05"-10"	115.9	121.5	95	13.8	2	
	FG-6	11th ST STA 21+00		6"	"	139.5	144.5	96	5.7	5	
	SG-6	11th ST STA 21+37		6"	"	143.2	144.5	99	5.1	5	
2-11-97	BF-6	11th ST STA 20+07		6"	15"-20"	117.1	123.5	95	12.3	4	
	FG-7	11th ST STA 20+09		6"	05"-08"	143.0	144.5	99	10.2	5	
2-17-97	FG-8	19+05		6"	05"-08"	146.4	144.5	100+	8.6	5	
	SG-8	16+45		6"	05"-08"	117.6	123.5	95	13.5	4	

LEGEND: (SG) Tests on Subgrade Elevation; (BF) Tests on Backfill; (FP) Tests on Fill in Progress
 (FG) Tests on Finish Grade Elevation; (Mc) Moisture Content; (REL) Relative; (RX) Rock Corrected; (*) Denotes Failure

FIELD COMPACTION TEST SUMMARY SHEET

PROJECT: Trautwein Const. Newmark Pipeline
Waterline Trench BF (90%) Street SG & FG (95%)

Job No. 97057-1
 Sh. 2 of

Date	Test No.	Location Of Test	Depth Of Cut	Depth Of Trench Fill (ft)	Depth Of Test (ft)	DENSITIES			MC%	Soil Type	Remarks or Retest Of	
						Dry	Max.	Rel.				
						(lbs/cubic foot)						
2-17-97	BF-7	11 th St. Sta	17+10		6±	2'-25"	116.1	123.5	94	10.2	4	
	SG-7	"	17+05		✓	0'-08"	122.9	123.5	99	11.8	4	
	BF-8	"	14+50			3'-35"	110.4	123.5	90	8.2	4	
	SG-8	"	14+55			0'-08"	120.4	123.5	98	10.6	4	
	FG-9	"	15+15			0'-03"	141.4	144.5	98	8.2	5	
2-21-97	SG-9	"	12+35		—	0'-06"	98.9	124.5	79	23.2	7	*
	BF-9		11+40		6'	2'-02"	99.1	124.5	79	21.6	7	*
2-22-97	SG-10	Mt. View	"	7		0'-05"	111.4	123.5	90	17.5	4	
	SG-11	"	"			"	115.8	"	93	11.7	4	
	SG-10	"	"			0'-1.4"	110.8	"	90	17.1	4	
	BF-11	"	"			"	102.4	116.5	87	19.5	7	*
	SG-12	"	"			0'-07"	110.6	123.5	90	17.9	4	
	SG-10	"	"			"	137.5	144.5	95	5.9	5	
2-23-97	BF-12	"	"	5	3'		122.2	123.5	91	6.2	9	
	SG-11	"	"						91	5.9	9	
	BF-12	"	"		"	1'-12"			91	6.8	9	
2-25-97	BF-11	"	"	5	5	2'-25"	111.7	123.5	93	11.3	10	
	SG-12	"	"	4	6	0'-05"	115.2	"	96	12.7	10	
3-6-97	BF-15	"	"		4'	0'-10"	96.	116.0	83	19.8	7	OK BY FRA
	BF-16	"	"		5'	0'-10"	101.4	116.0	87	19.8	7	OK BY FRA

LEGEND: (SG) Tests on Subgrade Elevation; (BF) Tests on Backfill; (FP) Tests on Fill in Progress
 (FG) Tests on Finish Grade Elevation; (Mc) Moisture Content; (REL) Relative; (RX) Rock Corrected; (*) Denotes Failure

FIELD COMPACTION TEST SUMMARY SHEET

Job No. 91051
 Sh. 3
 Plan Title _____
 Plan Sh. _____ of _____

PROJECT: Trautwein Const., Newmark Pipeline

Date	Test No.	Location Of Test	Depth Of		Depth Of Test	DENSITIES			MC%	Soil Type	Remarks or Retest Of
			Cut	Fill		Dry	Max.	Rel.			
3-7-97	F6-13	MT. VIEW STA 15+41		2 ³	0°-0 ²	134.4	134.0	100+	9.6	89	
3-11-97	BF 17	MT. VIEW STA 25+54		3°	0° 1°	104.6	116.0	90	18.4	7	
	FG 14	" " " 18+00			0° 0°	127.3	131.0	97	8.0	10	11
3-12	F6-15	" " " 25+07			0°-0°	137.1	144.5	100.5	15.8	10.5	
	F6-16	" " " 22+25			0°-0°	137.9	141.5	100.5	6.0	10.5	
	BF-18	" " " 31+70	6'	5°	0°-0°	98.2	116.0	85	16.9	7	* see BF
	BF-19	" " " 31+65	8'	5°	0°-0°	105.0	116.0	91	16.9	7	
3-13	BF-20	" " " 32+60	8'	5°	0°-0°	118.5	124.5	95	12.5	8	
	SG-13	" " " 27+50	8'	7°	0° 0°	116.1	116.0	96	15.5	7	
3-17-97	SG-14	" " " 34+15	8'	7°	0° 0°	113.3	116.0	98	16.3	7	
	BF-21	" " " 35+20	8'	4°	0° 0°	103.3	116.0	89.8	5.5	8	* see BF 2
	BF-22	" " " 35+20	8'	4°	0° 0°	113.4	124.5	91	7.5	8	
3-22-97	FG 17	" " " 32+70			"	121.8	131.0	100		11	
	FG 18	" " " 2+50			"	127.7	131.0	97	8.0	11	
	FG 19	" " " 2+20			"	122.9	121.5	95	11.4	8	
	FG 23	" " " 2+00			"	128.0	116.0	93	15.7	7	
3-24-97	SG-16	" " " 6+50	6'	7°	0° 0°	129.4	131.0	99	7.5	8	2x 20% (131.0)
	BF-24	" " " 40+35	5'	7°	4°-4°	110.5	124.5	85.3	14.9	8	* see BF 25
	BF-25	" " " 40+90	5'	7°	4°-4°	117.7	124.5	94	9.5	8	
	BF-26	" " " 43+26	5'	7°	4°-4°	121.5	124.5	97	11.0	8	

Tests on Subgrade Elevation; (BF) Tests on Backfill; (FP) Tests on Fill in Progress

Grade Elevation; (Mc) Moisture Content; (REL) Relative; (RX) Rock Corrected; (*) Denotes Failure

FIELD COMPACTION TEST SUMMARY SHEET

Job No. 97057-1

Sh. 4 of

PROJECT: TRAUTWEIN CONST - NEWMARK PIPELINE

Date	Test No.	Location Of Test	Depth Of		Depth Of Test	DENSITIES			MC%	Soil Type	Remarks or Retest Of
			Cut	Fill		Dry	Max.	Rel.			
3-21-97	FG-19	MT VIEW STA 38+00		0 ^s	0°-0 ^s	126.8	131.0	97	2.8	10	
	FG-20	" " " 34+30		"	"	128.7	"	98	4.4	10	
3-25-97	FG-21	" " " 40+20		0 ^s	0°-0 ^s	135.8	131.0	100+	32	11	
	BF-27	" " " 45+80	4	4	0°-0 ^s	127.0	134.5	97	8.7	12	15% Rx
26	BF-28	" " " 53+68			"	127.3	131.5	97	7.6	12	15% Rx
	SG-17	" " " 49+18			"	122.4	127.0	97	7.8	12	
	SG-18	" " " 46+20			"	132.7	134	99	7.7	12	22% Rx
	SG-19	" " " 43+50			0°-0 ^s	133.1	135.0	99	8.3	12	25% Rx
3-27-	FG-22	" " " 43+40			0°-0 ^s	137.3	144.5	95	4.2	5	
	FG-23	" " " 45+90			0°-0 ^s	136.8	144.5	96	5.2	5	
4-1-97	FG-23	" " " 50+40	—		0° 0 ^s	127.8	131.0	98	5.3	11	
	FG-24	" " " 53+60	—		0° 0 ^s	127.2	131.0	97	5.7	11	
	SG-20	" " " 53+00	—		0° 0 ^s	119.6	124.5	96	7.0	8	
	SG-21	" " " 56+30	—		0° 0 ^s	115.1	124.5	93	9.3	8	OK BY FRANK
4-3-97	SG-22	" " " 55+97	—		0° 0 ^s	118.6	124.5	95	7.9	8	
	FG-25	" " " 57+45	—		0° 0 ^s	127.5	131.0	97	4.0	11	
	SG-23	" " " 59+70	—		0° 0 ^s	123.3	124.5	99	6.4	8	
	FG-26	" " " 60+34	—		0° 0 ^s	126.0	131.0	96	2.7	11	
4-9-97	BF-29	17 TH ST " 11+20		4 ⁰	3° 3 ^s	120.3	122.0	95		12	
	BF-30	" " " 13+00		2 ^s	0° 1 ⁰	112.2	127.0	88		12	*OK BY FRANK

LEGEND: (SG) Tests on Subgrade Elevation; (BF) Tests on Backfill; (FP) Tests on Fill in Progress

(FG) Tests on Finish Grade Elevation; (Mc) Moisture Content; (REL) Relative Density; Corrected: (1) Density Failure

JOB 1, _____
Sh. 5 _____
Plan Title _____
Plan Sh. _____ of _____

WATER LINE TRENCH

LEGEND: (SG) Tests on Subgrade Elevation; (BF) Tests on Backfill; (FP) Tests on Fill in Progress
(FG) Tests on Finish Grade Elevation; (Mc) Moisture Content; (REL) Relative; (RX) Rock Corrected; (*) Denotes Failure

LEGEND: (SG) Tests on Subgrade Elevation; (BF) Tests on Backfill; (FP) Tests on Fill in Progress

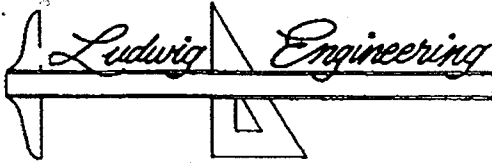
(FG) Tests on Finish Grade Elevation; (Mc) Moisture Content; (REL) Relative; (RX) Rock Corrected; (*) Denotes Failure

APR- 8-97 TUE 8:29 AM LUDWIG ENGINEERING

9098890153

FAX NO. 909890153

P. 1



CIVIL ENGINEERING: SURVEYING

109 EAST THIRD STREET, SAN BERNARDINO, CA 92410-4801
(909)884-8217 FAX (909)889-0153

RECEIVED
ENGINEERING

APR 08 1997

CITY OF SAN BERNARDINO
MUNICIPAL WATER DEPT

FAX COVER LETTER

DATE: April 8, 1997 JOB NO. SB0736

TO: James Dye

COMPANY NAME: City of San Bernardino Munic. Water

PHONE NUMBER: 909) 384-5391 FAX NUMBER: 909) 384-5532

FROM: Jim Kennedy

COMPANY NAME: LUDWIG ENGINEERING

TOTAL NUMBER OF PAGES INCLUDING COVER LETTER: 4

ORIGINAL WILL FOLLOW BY FED-X / OVERNITE MAIL	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
ORIGINAL WILL FOLLOW BY REGULAR MAIL	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	NO
ORIGINAL BY FAX ONLY	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO

COMMENTS: Thanks, James

IF YOU DO NOT RECEIVE THIS COMPLETE TRANSMISSION, PLEASE CALL IMMEDIATELY.

Ludwig Engineering

Project: SB0736

CONSTRUCTION STAKING S.B. CITY WATER LIN

Date: 03-Apr-97

Time: 04:48 PM

User: 72

H2O CUTSHEET 17TH STREET BYPASS

Station	O/S	Pr El	Hub El	Cut	Fill	Remarks
10+10	:17.50L:	1133.16:	41.09	7.93	:	, CONN MTN VIEW Pt 1456
10+50	:17.50L:	1136.59:	41.03	4.44	:	Pt 1457
10+70	:17.50L:	1138.30:	41.04	2.74	:	, GB Pt 1458
10+98	:17.50L:	1138.30:	41.09	2.79	:	, GB & 90D BEND Pt 1459
10+98.01	:17.50L:	1132.84:	:	:	:	, CONN TO MAIN Pt 1460

18.0 R

CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT

300 North "D" Street, Fifth Floor
San Bernardino, California 92418
(909)384-5391 (909)384-5532 fax
Contact: James Dye, P.E.

EPA Superfund Project - Newmark OU
South Plant Pipeline
Mountain View Avenue, Marshall Blvd., Leroy Street
Sheet 19 of 20
February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
13+00	1134.22	40.74	6.52	Pt 1468
12+50	1134.49	40.58	6.09	Pt 1467
12+00	1134.76	40.54	5.78	Pt 1466
11+50	1135.03	40.43	5.40	Pt 1465
10+98.30	16"x16" MJ x FL TEE			
10+98.30 GB	1135.31	40.50	5.19	Pt 1463
10+50	1133.77	40.38	6.61	Pt 1462
10+14	1132.62	40.45	7.83	Pt 1461
17th Street				
10+11	1241.96			
10+00	1241.76			
9+50	1240.84			
9+00	1239.93			
8+50	1239.01			
8+00	1238.10			
7+50	1237.18			
7+00	1236.27			

Leroy Street

CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT

300 North "D" Street, Fifth Floor
San Bernardino, California 92418
(909)384-5391 (909)384-5532 fax
Contact: James Dye, P.E.

EPA Superfund Project - Newmark OU
South Plant Pipeline
Mountain View Avenue, Marshall Blvd., Leroy Street
Sheet 20 of 20
February, 1997

Station	Plan Elev.	Stake Elev.	Cut	Description
15+02 (49' RT)	90o BEND			
15+02 (49' RT)	1133.60	41.07	7.47	Pt 1475
15+02	90o BEND			
15+02	1133.68	40.80	7.12	Pt 1474
14+50	1133.78	40.79	7.01	Pt 1472
14+00	1133.88	40.79	6.91	Pt 1471
13+50	1133.98	41.30	7.32	Pt 1470
13+40 GB	1134.00	41.46	7.46	Pt 1469

17th Street

URS

A PROFESSIONAL SERVICES ORGANIZATION

URS CONSULTANTS2710 GATEWAY OAKS DRIVE, SUITE 250 NORTH
SACRAMENTO, CALIFORNIA 95833

TEL: (916) 929-2346

FAX: (916) 929-7263

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ENGINEERING

APR 01 1997

OFFICESSAN FRANCISCO
SEATTLE
DENVER
COLORADO SPRINGS
SACRAMENTO
PORTLAND
ANCHORAGE
SAN BERNARDINO
LONG BEACH
PHOENIX
LAS VEGAS
NORTH HAVENNEW YORK
CLEVELAND
COLUMBUS
PARAMUS
AKRON
BUFFALO
NEW ORLEANS
ATLANTA
BOSTON
VIRGINIA BEACH
WASHINGTON, D.C.
TALLAHASSEE

March 31, 1997

Mr. Mark Trautwein
Trautwein Construction
14046 Santa Ana Avenue
Fontana, CA 92337CITY OF SAN BERNARDINO
MUNICIPAL WATER DEPT.62370.60.41.0125
13.03a**Subject: Contract No. 68-W9-0054 / WA No. 54-37-9NJ5
Newmark Groundwater Contamination Superfund Site
Newmark Operable Unit Remedial Design
Unacceptable Backfill Conditions**

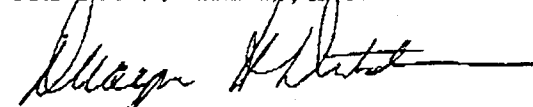
Dear Mr. Trautwein:

This letter is to formally document that between approximately 100 feet south of 16th Street and 17th Street the backfilling method and resultant product are not accepted. This lack of acceptance stems from trench backfilling in unstable ground that resulted in sections of existing pavement along the trench edge not being adequately supported. You were previously verbally notified of this problem by Mr. Frank DuBois at the time of the backfill operation and this letter serves only to document URS' position. You are expected to remedy this situation to the satisfaction of Mr. DuBois and the City of San Bernardino Public Works Department.

If you have any questions you may contact me at the above address and phone number.

Sincerely,

URS CONSULTANTS, INC.

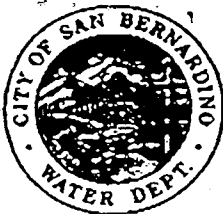
Dwayne H. Deutscher, P.E.
Site Managercc. Roy Herzig, EPA Region IX (SFD-7-4)
Bob Nagy, SB Public Works
James Dye, SB Water Department

33/13/97

12:13

CIT SAN BERNARDINO-WATER DEP + SBM. ENGINEERIN

NO. 666 001



WATER DEPARTMENT CITY OF SAN BERNARDINO

P.O. BOX 710
SAN BERNARDINO, CA 92402
TELEPHONE (714) 384-5192

RECEIVED
ENGINEERING
MAR 13 1997

CITY OF SAN BERNARDINO
MUNICIPAL WATER DEPT

CHANGE NOTICE INFO

775810

VENDOR NO.

2131

ORDER DAT

2-05-

DELIVERY LOCATION

VENDOR

WATER DEPARTMENT YARDS
195 NORTH 10TH STREET
SAN BERNARDINO CA 92401

LUDWIG ENGINEERING
109 EAST THIRD STREET
SAN BERNARDINO CA 92410

BID NO.	REQ. NO.	WORK ORD. NO.	REQUESTED BY	TERMS	F.O.B. INFORMATION
7-102	0		DYE	.000% G NET 0	DESTINATION
CO. NO.	TAX I.D./SSN NO.	BUYER TO CONTACT	PURCHASING AGENT		
		TOM VALDEZ	THOMAS A. VALDEZ		

QUANTITY	U/M	PART NUMBER	DESCRIPTION	UNIT COST	EXTENDED AMOL
1	LT	1	PERFORM CONSTRUCTION STAKING ACCOUNT # 1340 COMMENT: FOR THE SOUTH PLANT PIPELINE. COMMENT: NEWMARK GROUND WATER COMMENT: CONTAMINATION SUPERFUND COMMENT: PROJECT. COMMENT: ENGINEERING PROJECT #95-053 COMMENT: CONSTRUCTION ORDER #5237 COMMENT: PER BID #97-102 - DATED 2/5/97	5900.0000 * NON-TAXABLE ITEM *	5900. 5900.
				TOTAL \$	5900.

Post-it* Fax Note 7671

Date 3/13

of pages 1

To James D.	From LaCune
Co/Dept.	Co.
Phone #	Phone #
Fax #	Fax #

SAN BERNARDINO MUNICIPAL WATER DEPARTMENT

P. O. BOX 710 • SAN BERNARDINO, CA 92402

PURCHASE REQUISITION

COMPLETE THE FOLLOWING:

DATE MARCH 15 1977 WANTED BY _____ 19____
 CONSTRUCTION ORDER NO. 5773 WORK ORDER NO. _____
 EQUIP. OR TRUCK NO. _____ MAKE _____
 MATERIAL USED FOR: Prof. Services

NEW MATERIAL IS FOR: REPLACEMENT ☐ REPAIR ☐ NEW ☐
 OLD MATERIAL WILL BE: JUNKED ☐ SALVAGE ☐ SERIAL NO. _____
 OTHER _____ PROPERTY TAG NO: _____

COMPANY CONTACTED Ludwig Eng.
 PERSON CONTACTED _____ PHONE () _____
 DELIVERY DATE _____ TERMS _____ FREIGHT _____
 ORDER DATE _____ LIST ACCOUNT NO. BY LINE _____

LINE NO.	QUANTITY	DESCRIPTION	UNIT PRICE	EXTENSION
1		Construction Staking for South Plant		
2		Pipe line See attached P.O.	5900.00	
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

USEPA SUPERFUND
 EPN 95-05-000-11
 5773

REQUISITION NO. 28216 OFFICE USE ONLY
 APPROVED SUPV. [Signature] REQUESTED BY JAMES Dye
 P. O. NO. _____ VENDOR _____



83054

MEMORANDUM is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

SHIPPERS

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,
at PROVO, UT.

The property described below, in apparent good order except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property that every service to be performed hereunder shall be subject to all terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.
Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading set forth in the classification or tariff which governs the transportation of this shipment and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

SOLD TO: CITY OF SAN BERNARDINO P.O. BOX 710 SAN BERNARDINO CA 92402		CONSIGNEE TO UNLOAD ALL MATERIALS		CONSIGNED TO AND DESTINATION: 23093 C/O TRAUTWEIN CONST MOUNTAIN VIEW & 11TH ST 909-384-5192 TIM SAN BERNARDINO CA	
VEHICLE NUMBER: SMP 707	F.O.B. 3-FOB FOUNDRY FRT PREPAID	SHIP-DATE: 3/12/97	WEIGHT: 35,514	PAGE: 1	
FINAL DESTINATION: SAN BERNARDINO CA	SHIPPERS NO.: 23093	CUST. - P.O.: SPEC1276	COMPUTER-ORDER-NUMBER: 000188		
LINE	ITEM	DESCRIPTION		QTY.	
5.	1D241050BJ	24 DI PIPE TJ X PE CL 50 1-16'		18	
9.	G24R10	CL SC IN/SC OUT		18	
14.	L1GLX	24 TJ GASKET GALLON PIPE LUBRICANT *DUE: 03-14-97 7:00 AM *STRING PIPE *TRAUTWEIN CONST PHONE *909-829-8258		1	

(CONSIGNEE, RESPONSIBILITY FOR DELAY CHANGES IN EXCESS OF 2 HR) DO NOT DROP ITEMS FROM TRUCK

I acknowledge receipt of shipment in good order.		* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note - Where the rate is dependent on value. Shippers are required to state specifically in writing the agreed or declared value of the property.	
SHIPPER'S SIGNATURE <i>Clayton</i>	DATE 3-12-97	SHIPPER'S SIGNATURE	DATE
		ORIGIN CARRIER NAME	
		SHIPPER'S SIGNATURE	DATE

PACKING



MEMORANDUM is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

SHIPPERS

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading.
at PROVO, UT.

the property described below, in apparent good order except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property that every service to be performed hereunder shall be subject to all terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.
Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading set forth in the classification or tariff which governs the transportation of this shipment and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

SOLD TO: CITY OF SAN BERNARDINO P.O. BOX 710 SAN BERNARDINO CA 92402		CONSIGNEE TO UNLOAD ALL MATERIALS		CONSIGNEE TO AND DESTINATION: 23093 C/O TRAUTWEIN CONST MOUNTAIN VIEW & 11TH ST 909-384-5192 TIM SAN BERNARDINO CA	
VEHICLE NUMBER: SMP 715	F.O.B. 3-FOB FOUNDRY FRT PREPAID	SHIP-DATE: 3/12/97	WEIGHT: 35,511 619	PAGE: 1	
FINAL DESTINATION: SAN BERNARDINO CA		SHIPPERS NO.: 23093	CUST. - P.O.: SPEC1276	COMPUTER-ORDER-NUMBER: 000188	
LINE	ITEM	DESCRIPTION			QTY.
5.	10241050BJ	24 DI PIPE TJ X PE CL 50 CL SC IN/SC OUT			18
9.	G24R10	24 TJ GASKET			18
14.	L1GLX	GALLON PIPE LUBRICANT *DUE: 03-14-97 7:00 AM *STRING PIPE *TRAUTWEIN CONST PHONE *909-829-8258			1

(CONSIGNEE, RESPONSIBILITY FOR DELAY CHANGES IN EXCESS OF 2 HR) DO NOT DROP ITEMS FROM TRUCK

I acknowledge receipt of shipment in good order.		* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note - Where the rate is dependent on value. Shippers are required to state specifically in writing the agreed or declared value of the property.	
SHIPPER'S SIGNATURE <i>Clayton</i> 3-12-97	SHIPPER'S DATE	ORIGIN CARRIER NAME	SHIPPER'S SIGNATURE
		DATE	

PACKING

PACIFIC STATES
CAST IRON PIPE COMPANY
DIVISION OF McWANE CAST IRON PIPE COMPANY
P.O. BOX 1219, PROVO, UTAH 84601
TELEPHONE (AREA CODE 801) 373-8910



83048

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SHIPPERS

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of the issue of this Bill of Lading, at PROVO, UT.

The property described below, in apparent good order except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property that every service to be performed hereunder shall be subject to all terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading set forth in the classification or tariff which governs the transportation of this shipment and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

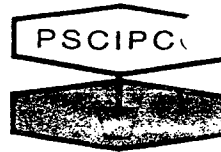
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

SOLD TO: CITY OF SAN BERNARDINO P.O. BOX 710 SAN BERNARDINO CA 92402		CONSIGNEE TO UNLOAD ALL MATERIALS		CONSIGNEE TO AND DESTINATION: 23093 C/O TRAUTWEIN CONST MOUNTAIN VIEW & 11TH ST 909-384-5192 TIM SAN BERNARDINO CA	
VEHICLE NUMBER: SMP 709	F.O.B. 3-FOB FOUNDRY FRT PREPAID	SHIP-DATE: 3/12/97	WEIGHT: 35,514	PAGE: 1	
FINAL DESTINATION: SAN BERNARDINO CA		SHIPPERS NO.: 23093	CUST. - P.O.: SPEC1276	COMPUTER-ORDER-NUMBER: 000188	
LINE	ITEM	DESCRIPTION			QTY.
5.	1D241050BJ	24 DI PIPE TJ X PE CL 50 CL SC IN/SC OUT			18
9.	G24R10	24 TJ GASKET			18
14.	L16LX	GALLON PIPE LUBRICANT *DUE: 03-14-97 7:00 AM *STRING PIPE *TRAUTWEIN CONST PHONE *909-829-8258			1

(CONSIGNEE, RESPONSIBILITY FOR DELAY CHANGES IN EXCESS OF 2 HR) DO NOT DROP ITEMS FROM TRUCK

I acknowledge receipt of shipment in good order.		* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note - Where the rate is dependent on value. Shippers are required to state specifically in writing the agreed or declared value of the property.	
SHIPPER'S SIGNATURE <i>Clayton</i>	DATE 3-12-97	SHIPPER'S SIGNATURE	DATE
		ORIGIN CARRIER NAME	SHIPPER'S SIGNATURE DATE

PACKING



83046

MEMORANDUM is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

SHIPPERS

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of the issue of this Bill of Lading, at PROVO, UT.

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Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading set forth in the classification or tariff which governs the transportation of this shipment and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

SOLD TO: CITY OF SAN BERNARDINO P.O. BOX 710 SAN BERNARDINO CA 92402		CONSIGNED TO AND DESTINATION: 23093 C/O TRAUTWEIN CONST MOUNTAIN VIEW & 11TH ST 909-384-5192 TIM SAN BERNARDINO CA <i>15th Stop</i>	
CONSIGNEE TO UNLOAD ALL MATERIALS			
VEHICLE NUMBER: SMP 605	F.O.B. 3-FOB FOUNDRY FRT PREPAID	SHIP-DATE: 3/12/97	WEIGHT: 43,693
FINAL DESTINATION: SAN BERNARDINO CA		SHIPPERS NO.: 23093	CUST. - P.O.: SPEC1276
		COMPUTER-ORDER-NUMBER: 000188	PAGE: 1

LINE	ITEM	DESCRIPTION	QTY.
2.	1D161050BJ	16 DI PIPE TJ X PE CL 50 CL SC IN/SC OUT	35
5.	1D241050BJ	24 DI PIPE TJ X PE CL 50 CL SC IN/SC OUT	1
8.	G16R10	16 TJ GASKET	35
9.	G24R10	24 TJ GASKET	1
14.	L1GLX	GALLON PIPE LUBRICANT *DUE: 03-14-97 7:00 AM *STRING PIPE *TRAUTWEIN CONST PHONE *909-829-8258	1

(CONSIGNEE, RESPONSIBILITY FOR DELAY CHANGES IN EXCESS OF 2 HR) DO NOT DROP ITEMS FROM TRUCK

I acknowledge receipt of shipment in good order.		* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note - Where the rate is dependent on value. Shippers are required to state specifically in writing the agreed or declared value of the property. ORIGIN CARRIER NAME _____ SHIPPER'S SIGNATURE _____ DATE _____
SHIPPER'S SIGNATURE <i>Chapman</i> DATE <i>3-12-97</i>	SHIPPER'S SIGNATURE <i>Rica</i> DATE _____	

ILLINOIS CIFIC STATES
CAST IRON PIPE COMPANY
DIVISION OF McWANE CAST IRON PIPE COMPANY
P.O. BOX 1219 PROVO, UTAH 84601
TELEPHONE (AREA CODE 801) 373-6910



83044

MEMORANDUM is an acknowledgment that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

SHIPPERS

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,
at PROVO, UT.

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Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading set forth in the classification or tariff which governs the transportation of this shipment and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

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SOLD TO: CITY OF SAN BERNARDINO P.O. BOX 710 SAN BERNARDINO CA 92402		CONSIGNED TO AND DESTINATION: 23093 C/O TRAUTWEIN CONST MOUNTAIN VIEW & 11TH ST 909-384-5192 TIM 15 th Stop SAN BERNARDINO CA	
CONSIGNEE TO UNLOAD ALL MATERIALS			
VEHICLE NUMBER: SMP 669	F.O.B. 3-FOB FOUNDRY FRT PREPAID	SHIP-DATE: 3/12/97	WEIGHT: 23,800
FINAL DESTINATION: SAN BERNARDINO CA		SHIPPERS NO.: 23093	CUST. - P.O.: SPEC1276
		COMPUTER-ORDER-NUMBER: 000188	
LINE	ITEM	DESCRIPTION	QTY.
2.	1D161050BJ	16 DI PIPE TJ X FE CL 50 CL SC IN/SC OUT	20
8.	G16R10	16 TJ GASKET	20
14.	L1GLX	GALLON PIPE LUBRICANT *DUE: 03-14-97 7:00 AM *STRING PIPE *TRAUTWEIN CONST PHONE *909-829-8258	1

(CONSIGNEE, RESPONSIBILITY FOR DELAY CHANGES IN EXCESS OF 2 HR) DO NOT DROP ITEMS FROM TRUCK

I acknowledge receipt of shipment in good order.		* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note - Where the rate is dependent on value. Shippers are required to state specifically in writing the agreed or declared value of the property.
SHIPPER'S SIGNATURE <i>Chapman</i> 3-12-97	SHIPPER'S SIGNATURE _____ DATE _____	ORIGIN CARRIER NAME _____ SHIPPER'S SIGNATURE _____ DATE _____



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** SOLD TO: CITY OF SAN BERNARDINO P.O. BOX 710 SAN BERNARDINO CA 92402		CONSIGNEE TO UNLOAD ALL MATERIALS			CONSIGNEE TO AND DESTINATION: 23093 C/O TRAUTWEIN CONST MOUNTAIN VIEW & 11TH ST 909-384-5192 TIM SAN BERNARDINO CA	
VEHICLE NUMBER: SMP 635	F.O.B. 3-FOB FOUNDRY FRT PREPAID	SHIP-DATE: 2/20/97	WEIGHT: 41,232	PAGE: 1		
FINAL DESTINATION: SAN BERNARDINO CA	SHIPPERS NO.: 23093	CUST. - P.O.: SPEC1276	COMPUTER-ORDER-NUMBER: 000185			
LINE	ITEM	DESCRIPTION	QTY.			
3.	1D163050BJ	16 DI PIPE MJ W/TJ X PE CL 50 CL SC IN/SC OUT	9			
5.	1D241050BJ	24 DI PIPE TJ X PE CL 50 CL SC IN/SC OUT	6			
6.	1D243050BJ	24 DI PIPE MJ W/TJ X PE CL 50 CL SC IN/SC OUT	9			
8.	G16R10	16 TJ GASKET	9			
9.	G24R10	24 TJ GASKET	15			
10.	J034X0412	3/4 X 4 1/2 COR TEN BOLT	108			
11.	J034X0500	3/4 X 5 COR TEN BOLT	144			
14.	L1GLX	GALLON PIPE LUBRICANT *DUE: 02-24-97 7:00 AM *STRING PIPE *TRAUTWEIN CONST PHONE *909-829-8258	1			

(CONSIGNEE, RESPONSIBILITY FOR DELAY CHANGES IN EXCESS OF 2 HR) DO NOT DROP ITEMS FROM TRUCK

I acknowledge receipt of shipment in good order.		★ If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note - Where the rate is dependent on value. Shippers are required to state specifically in writing the agreed or declared value of the property.	
SHIPPER'S SIGNATURE <i>Ray</i>	DATE 2-20-97	SHIPPER'S SIGNATURE	DATE

PACKING



82578

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SOLD TO: CITY OF SAN BERNARDINO P.O. BOX 710 SAN BERNARDINO CA 92402		CONSIGNEE TO UNLOAD ALL MATERIALS		CONSIGNEE TO AND DESTINATION: 23093 C/O TRAUTWEIN CONST MOUNTAIN VIEW & 11TH ST 909-384-5192 TIM SAN BERNARDINO CA	
VEHICLE NUMBER: SMP 795	F.O.B. 3-FOB FOUNDRY FRT PREPAID	SHIP-DATE: 2/20/97	WEIGHT: 39,460	PAGE: 1	
FINAL DESTINATION: SAN BERNARDINO CA		SHIPPERS NO.: 23093	CUST. - P.O.: SPEC1276	COMPUTER-ORDER-NUMBER: 000185	
LINE	ITEM	DESCRIPTION			QTY.
5.	10241050BJ	24 DI PIPE TJ X PE CL 50 CL SC IN/SC OUT 1-16'1"			20
9.	G24R10	24 TJ GASKET			20
14.	L1GLX	GALLON PIPE LUBRICANT *DUE: 02-24-97 7:00 AM *STRING PIPE *TRAUTWEIN CONST PHONE *909-829-8258			1

5 Bags

[Signature]

(CONSIGNEE, RESPONSIBILITY FOR DELAY CHANGES IN EXCESS OF 2 HR) DO NOT DROP ITEMS FROM TRUCK

SHIPPER'S SIGNATURE <i>Clayton</i> 2-20-97 DATE	I acknowledge receipt of shipment in good order.	* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note - Where the rate is dependent on value. Shippers are required to state specifically in writing the agreed or declared value of the property.
SHIPPER'S SIGNATURE	SHIPPER'S SIGNATURE	SHIPPER'S SIGNATURE
DATE	DATE	DATE

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VEHICLE NUMBER: SMP 667	F.O.B. 3-FOB FOUNDRY FRT PREPAID	SHIP-DATE: 2/20/97	WEIGHT: 34,363	PAGE: 1		
FINAL DESTINATION: SAN BERNARDINO CA		SHIPPERS NO.: 23093	CUST. - P.O.: SPEC1276	COMPUTER-ORDER-NUMBER: 000185		

LINE	ITEM	DESCRIPTION	QTY.
2.	1D161050BJ	16 DI PIPE TJ X PE CL 50 CL SC IN/SC OUT	4
5.	1D241050BJ	24 DI PIPE TJ X PE CL 50 CL SC IN/SC OUT	15
8.	G16R10	16 TJ GASKET	4
9.	G24R10	24 TJ GASKET	15
14.	L1GLX	GALLON PIPE LUBRICANT *DUE: 02-24-97 7:00 AM *STRING PIPE *TRAUTWEIN CONST PHONE *909-829-8258	1

(CONSIGNEE, RESPONSIBILITY FOR DELAY CHANGES IN EXCESS OF 2 HR) DO NOT DROP ITEMS FROM TRUCK

I acknowledge receipt of shipment in good order.		<p>* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight."</p> <p>Note - Where the rate is dependent on value. Shippers are required to state specifically in writing the agreed or declared value of the property.</p> <p>ORIGIN CARRIER NAME _____</p>
SHIPPER'S SIGNATURE <u>Clayton</u> DATE <u>2-20-97</u>	SHIPPER'S SIGNATURE _____ DATE _____	SHIPPER'S SIGNATURE _____ DATE _____

PACKING



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CONSIGNEE TO UNLOAD ALL MATERIALS			
VEHICLE NUMBER: SMP 656	F.O.B. 3-FOB FOUNDRY FRT PREPAID	SHIP-DATE: 2/20/97	WEIGHT: 44,104
FINAL DESTINATION: SAN BERNARDINO CA		SHIPPERS NO.: 23093	CUST. - P.O.: SPEC1276
		COMPUTER-ORDER-NUMBER: 000185	PAGE: 1
LINE	ITEM	DESCRIPTION	QTY.
2.	ID161050BJ	16 DI PIPE TJ X PE CL SO CL SC IN/SC OUT	37
8.	G16R10	16 TJ GASKET	37
14.	L16LX	GALLON PIPE LUBRICANT *DUE: 02-24-97 7:00 AM *STRING PIPE *TRAUTWEIN CONST PHONE *909-829-8258	1

5 Bags

(CONSIGNEE, RESPONSIBILITY FOR DELAY CHANGES IN EXCESS OF 2 HR) DO NOT DROP ITEMS FROM TRUCK

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SHIPPER'S SIGNATURE <i>Clayton</i> 2-20-97	SHIPPER'S SIGNATURE _____ DATE _____	
		ORIGIN CARRIER NAME _____
		SHIPPER'S SIGNATURE _____ DATE _____

PACKING